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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet

1

of 5

Complete if Known

Application Number	09/875,458
Filing Date	06/05/2001
First Named Inventor	CULVER, Craig F.
Art Unit	2674
Examiner Name	WU, Xiao Min

Attorney Docket Number IMM059A (51851-280615)

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## U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Date  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	2	of	5	Attorney Docket Number	IMM059A (51851-280615)
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Application Number	09/875,458
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First Named Inventor	CULVER, Craig F.
Art Unit	2674
Examiner Name	WU, Xiao Min

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### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		5,436,622	7/25/1995	Gutman et al.	
		6,111,577	8/29/2000	Zilles et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)		
BW	EP	EP	0349086		Visser	

Examiner Signature	Xiao Wu	Date Considered	7-27-03
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Substitute for form 1449A/PTO <i>Information Disclosure Statement by Applicant</i> (use as many sheets as necessary)				Complete if Known	
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				Examiner Name	WU, Xiao Min
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>xw</i>		BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990.
<i>xw</i>		IWATA, "Pen-based Haptic Virtual Environment, 0-7803-1363-1/93 IEEE, pp 287-292, 1993.
<i>xw</i>		RUSSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, May 1990.
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<i>xw</i>		JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, 1990.
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Examiner Signature	<i>X140 WU</i>	Date Considered	<i>7-27-03</i>
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Application Number 09/875,458

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First Named Inventor CULVER, Craig F.

Art Unit 2674

Examiner Name WU, Xiao Min

Attorney Docket Number IMM059A (51851-280615)

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## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>KW</i>		KONTARINIS et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-8, 1993.
		PATRICK et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990.
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<i>V</i>		EBERHARDT et al., "OMAR - A Haptic display for speech perception by deaf and deaf-blind individuals," IEEE Virtual Reality Annual International Symposium, Seattle, WA, Sep. 18-22, 1993.
<i>KW</i>		RABINOWITZ et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contactor area," Journal of The Acoustical Society of America, Vol. 82, No. 4, October 1987.

Examiner Signature	XIAO WU	Date Considered	7-27-03
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		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," Armstrong Aerospace Medical Research Laboratory, AAMRL-TR-90-039, August, 1990.
		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, 4(4):387-402, 1995.
✓		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, Vol. 4, No. 4, pp. 387-402, 1995.
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